Application No.: 10/509,498

Filing Date: October 27, 2004

AMENDMENTS TO THE CLAIMS

 (Currently amended) An <u>vaccine—immunogenic</u> composition suitable for administration to a vertebrate host which comprises:

(a) a polynucleotide vaccine immunogenic component comprising at least one polynucleotide encoding at least one antigen, such that introduction of said polynucleotide vaccine immunogenic component into said vertebrate host results in expression of a biologically effective amount of said antigen or antigens so as to induce a prophylactic or therapeutic immune response:

- (b) a protein antigen vaeeine immunogenic component comprising at least one
 protein antigen selected from the group consisting of model protein antigens and vaeeine
 immunogenic protein antigens; and
- (c) a mineral-based, negatively charged adjuvant,

 wherein—said composition produced by a method comprising preincubating or

 subsequently mixing said mineral-based negatively charged adjuvant is preincubated or

 subsequently—mixed—with said at least one protein antigen vaccine—immunogenic

 component prior to formulating with said polynucleotide vaccine—immunogenic

 component.
- (Currently ameuded) The <u>waeeineimmunogenic</u> composition according to claim 1
 wherein said mineral-based negatively charged adjuvant is an aluminum salt or a calcium salt.
- 3. (Currently amended) The vaccine-immunogenic composition according to claim 2 wherein said aluminum or calcium salt is selected from the group consisting of aluminum phosphate, aluminum hydroxyphosphate, phosphate-treated aluminum hydroxide, calcium phosphate, calcium hydroxyphosphate, and phosphate-treated calcium hydroxide.
- (Currently amended) The vaccine-immunogenic composition according to claim 1
 wherein said group of model protein antigens range from acidic isoelectric point (IEP) proteins to
 alkaline IEP proteins.
- 5. (Currently amended) The vaccine immunogenic composition according to claim 1 wherein said group of vaccine immunogenic protein antigens comprises is selected from the group consisting of a surface protein or a core protein of Hepatitis B virus (HBV), a de-toxified toxin from the bacteria Clostridium tetani (a tetanus toxoid), a de-toxified toxin from the bacteria